

63-20253

Tyuraev, I. Ya.
DEVELOPMENT OF THE BASES FOR A PROCESS OF
INDUSTRIAL DEHYDROGENATION OF PARAFFIN
HYDROCARBONS. [1963] [9p] 10refs
Order from OTS or SLA \$1.10 63-20253

I. Tyuraev, I. Ya.

Trans. of Izvest[lya] Vysshikh Ucheb[nykh] Zavedenii.
Khimiya i Khimicheskaya Tekhnologiya (USSR)
1959, v. 2 [no. 5] p. 797-802.

DESCRIPTORS: *Towers (Chemistry), Design, Hydro-
carbons, Alkanes, *Propanes, *Butanes, *Dehydrogena-
tion, Reaction kinetics, Alkenes, *Propenes, *Butenes,
Production, *Catalysts, Fluidized solids.

Constants in equations for n-butane dehydrogenation
rate and constant in equation for kinetical cracking,
which is a side reaction, were determined with one of
the industrial catalysts. The effect of reactor apparatus
type on the process for dehydrogenation of paraffin
(Engineering--Chemical, TT, v. 10, no. 12) (over)

Office of Technical Services

Solubility of Inorganic Salts in Organic Solvents and
Their Mixtures With Water, by I. S. Pekhtashev, L. A.
Voznesenskiy.

RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedniy,
Khim i Khim, Tekhnologiya, Vol II, 1959, pp 827-833.

*AEC

Sci - Chem

Oct 62

Micromethods for Quantitative Determination
of Carbon, Hydrogen, and Nitrogen in
Organic Substances in Small Tubes Under
Vacuum, by P. N. Fedoseyeva & T. E.
Chernyshova, 6 pp

RUSSIAN, per, Iz Vysshikh Ucheb
Zaved Khim i Khim Tekhnol,
Vol II, No 6, 1959, pp 899-903.

ATS-98M43R 01 (87-11058)

Sci
Feb 62

186,808

Design of Packed Towers for Chemisorption
Conditions, by I. P. Slobodyanik,
A. G. Kasatkin, V. V. Kafarov, 6 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved
Khim i Khim Tekh, Vol II, No 6, 1959,
pp ~~956-961~~ 956-961.

ATB-73M43R
ATS/2468

Sci
Vol IV, No 9
Mar 62

187, 023

(NY-3807).

First All-Union Conference of Higher Educational
Institutions on Radiochemistry of the USSR, by
A. V. Lapitskiy, An. N. Nesmeyanov, 3 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khim Tekh, Vol II, No 6, 1959, pp 974-977.

JPRS 2807

118,680

See - Chem
Jan 60

Compressibility of Aqueous Solutions of Non-Electrolytes, by I. V. Persianova, V. V. Tarasov.

RUSSEAN, per, Iz VUZ Khimiya i Khim Tekh,
Vol III, No 1, 1960, pp 4-7.

NRC C-4977

Apr 67

323,078

Usmanov, A. G. and Berezhnoi, A. N.
GENERALIZATION OF EXPERIMENTAL DATA ON
THERMAL DIFFUSION OF GASES, tr. by
B. W. Kuvshinoff. 6 Sep 61, 7p. 8 refs. APL/JHU
TG 230-T248.
Order from OTS \$0.50

61-31627

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1960
(v. 3) no. 1, p. 8-13.

DESCRIPTORS: *Experimental data, *Thermal dif-
fusion, *Gas diffusion, Gases, Diffusion, Separation,
Mixtures, Chemical analysis, Temperature, Heat
transfer, Thermodynamics, Thermochemistry.

The relative separation of a binary gas mixture
during thermal diffusion is described by the equation
(Chemistry--Physical, TT, v. 7, no. 1) (over)

61-31627

I. Usmanov, A. G.
II. Berezhnoi, A. N.
III. APL/JHU TG 230-T248
IV. Contract NOrd 7386

UNAL A, R. 1960

Navy 2944/
APL

Office of Technical Services

T248

Interaction of Molecular and Atomic Chlorine With
Metallic Silver, by V. S. Gurman, V. A. Vishnevskiy,
G. B. Sergeyev, 5 pp.

RUSSIAN, per, Izvestiya Vysshikh Ucheb. Zaved, Khim
i Khim, Tekhnol, Vol III, No 1, 1960, pp 29-32.

CIA/FDD XX-1027

NOT RELEASABLE TO FOREIGN NATIONALS

ATS/RT-3043

Sci - Chem

Jul 61

16/015

USIB INTERNAL USE ONLY

ON THE DEPENDENCE OF THE POSITIVE MINIMUM
ELECTRICAL CONDUCTIVITY ON THE PERMITTIVITY
OF THE MEDIUM, BY A. M. SHKODIN,

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED:
KHIM I KHIMICH TEKH, VOL 1, 1960, PP 36-40.

NLL RTS 1809

SCI - ELECTRON

JUN 62

199,897

Kinetics of the Reaction of Ethylene
Oxide with Aniline, by N. N. Lebedev,
M. M. Smirnova.

RUSSIAN, per, Izvestiya VUZ Khimiya i
Khimicheskaya Tekhnologiya, Vol 3, No 1,
1960, pp 104-108.
ATB-14883R

Sci-Chem
Aug 66

309,203

DESTRUCTION OF THE SECONDARY LAYER OF THE
CELL WALL BY X BLUE STAIN FUNGI, BY
I. G. KRAPIVINA.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED LES ZHUR,
VOL III, NO 1, 1960, PP 130-133.

NLL M.4648

SCI - ENGR

JUN 62

199,159

S-512/50

(DC-4159)

Investigation of the Vapor Phase Nitration of
Cyclopentane Hydro-Carbons. III. Nitration of
Propylcyclopentane, by M. A. Peredreyeva, Ya. I.
Denisenko, S. S. Novikov, 6 pp.

RUSSIAN, per, Iz Vysshykh Ucheb Zaved SSSR,
Khim i Khim Tekh, Vol III, No 2, 1960, pp 312-315.

JPRS 3659

Sci - Chem

Aug 60

122,846

Fild, R. M., Chirikova, A. V. and others.
RESEARCH IN THE FIELD OF STEAM PHASE CATALYTIC SYNTHESIS OF VINYL ACETATE. [1961]
14p. 10 refs.
Order from RIS \$25.00

RIS D-774

Trans. of [Izvestiya Vysshikh Uchebnykh Zavedeni].
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1960
[v. 3] no. 2, p. 343-351.

DESCRIPTORS: *Vinyl radicals, *Acetates, Synthesis,
Catalysis, Steam, Chemical reactions.

(Chemistry--Organic, TT, v. 7, no. 10)

62-12417

- I. Fild, R. M.
- II. Chirikova, A. V.
- III. RIS D-774
- IV. Research Information
Service, New York

Office of Technical Services

Capability of Intramolecular Combustion of
Inorganic Ammonium Salts, by A. A. Chidlovskiy,
6 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khimiya
i Khimi Tekh, Vol III, No 3, 1960, pp 405-407.
9670226

FTD

~~2223~~ MCL-848/1

Sci - Chem

161,360

Jul 61

Priselkov, Yu. A., Sapozhnikov, Yu. A. and others.
SOME PROBLEMS OF THE ACCURACY OF THE
EFFUSION METHOD FOR DETERMINING THE
SATURATED VAPOR PRESSURE OF INDIUM. [1962]
[7]p. 3 refs.

Order from OTS or SLA \$1.10

63-13398

Trans. of Izvest[ia] Vysshikh Uchebn[ykh] Zaved[eni].
Khim[iya] i Khimicheskaya Tekhnologiya (USSR)
[1960, v. 3] no. 3, p. 447-451.

DESCRIPTORS: *Indium, *Vapor pressure, Silver,
Heat, *Diffusion.

Silver and indium were used in ascertaining the condi-
tions required for employing high-frequency heating to
determine vapor pressure by Knudsen's method. An
improved effusion chamber was used in studying the
effect of the axial temperature gradient. It was found
that the vapor pressure within the effusion chamber is
(Physics--Solid State, TT, v. 10, no. 4) (over)

63-13398

- I. Priselkov, Yu. A.
- II. Sapozhnikov, Yu. A.
- III. Translations, New York

Office of Technical Services

Use of Radioactive Isotopes in the Study of the Diffusion Processes, Accompanied by Phase and Chemical Transformations, by A. D. Sotskov.

RUSSIAN, per, Izvestiya VUZ. Khim i Khim Tekhnol., No 3, 1960, pp 452-456.

*NTIS TT 72-52020

Aug 72

The Problem of the Volatility of Niobium
Oxides, by I. V. Golubtsov, et al.
RUSSIAN, per, Izv VUZ Khim i Khim Tekhnol,
No 4, 1960, pp 571-574.
NASA TT F-10,224

Sci-Chem
Aug 66

308,9212

Kinetics of Ammonia Synthesis on an Iron
Catalyst With Addition of Uranium, by
A. P. Zasorin, V. G. Khalabuzar, Ye. I.
Pizin.

RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedeniy, Khimiya i Khim Tekhnologiya,
Vol III, No 4, 1960, pp 695-698.

* Dept of Interior

Sch - Chem

62-23272

Mar 62

Hydrogen Overvoltage on Porous Iron and Iron-Nickel Cathodes in Electrolysis of a Sodium Chloride Solution, by I. B. Barmashenko, L. A. Gorbachevskaya, 15 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved SSSR, Khim i Khimicheskaya Tekh, No 4, 1960, pp 699-706. 9673045

FTD-TT-61-134

Sci - Chem
15 Feb 62

182,614

Roskin, E. S.
COMPARATIVE DETERMINATION OF MOLECULAR
WEIGHTS OF ACRYLONITRILE BY THE METHODS
OF LIGHT SCATTERING AND VISCOSIMETRY. [961]
[7]p. 7 refs.
Order from OTS or SLA \$1.10

61-18677

Trans. of [zvestiya] Vysshikh Uchebnykh Zavedenii.
Khimiya [Khimicheskaya Tekhnologiya] (USSR)
1960, v. 3, no. 4, p. 721-724.

DESCRIPTORS: *Acrylonitriles, *Molecular weight,
Determination, Viscosity, Viscosimeters, Light,
Scattering.

The determination of the weight average molecular
weight of a non-fractionated polyacrylonitrile by the
simpler viscosimetric method gave almost the same
results as the more complicated but more correct light
(Chemistry--Organic, TT, v. 6, no. 10) (over)

61-18677

I. Roskin, E. S.

REC UCR TR-745 (4)
9097034

276

Office of Technical Services

(DC-5880)

Inter-Vuz Scientific Conference, by N. P.
Opolovnikova, V. L. Kiselova, 8 5 PP.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim 1
Khim Tekh, Vol III, No 4, 1960, pp 771-775.

JPRS 8660

Sci - Chem
Aug 61

163,294

Starkov, S. P. and Spryskov, A. A.
THE FORMATION OF SULFONES AND THE CORRE-
SPONDING SULFONIC ACIDS DURING THE SULFONA-
TION OF BENZENE. Pt. 52 of Study of the Sulfonation
Reaction. [1961] 5p.
Order from ATS \$8.35

ATS-40N50R

Trans. of Izvestiya Vysshikh Uchebnykh Zavedeniy.
Khimiya i Khimicheskaya Tekhnologiya (USSR)
1960, v. 3, no. 5, p. 868-871.

61-22135

1. Benzenesulfonic acid--
Synthesis
2. Sulfones--Synthesis
3. Benzene--Chemical
reactions

- I. Starkov, S. P.
- II. Spryskov, A. A.
- III. Title: Study...
- IV. ATS-40N50R
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS-RJ-2932
15812

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 11)

Novikov, G. I., Makarenya, A. A. and others.
AN IMPROVED CIRCULATION METHOD FOR DE-
TERMINING DISSOCIATION PRESSURE. [1962] [10]p.
28 refs.

Order from OTS or SLA \$1.10

63-13399

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
~~Khimiya i Khimicheskaya Tekhnologiya (USSR) 1960~~
[v. 3] no. 5, p. 952-958.

DESCRIPTORS: *Gas analysis, Chemical equilibrium,
Thermodynamics, Thermal dissociation.

An improved circulation apparatus using semimicro-
chemical and thermoconductometric methods of gas
analysis is described for investigating chemical
equilibria and determining the dissociation pressure of
binary compounds. Experiments were performed in-
cluding a study of the system: $\text{FeCl}_2(\text{solid}) + \text{H}_2 =$
(Chemistry--Physical, TT, v. 10, no. 4) (over)

63-13399

I. Novikov, G. I.
II. Makarenya, A. A.
III. Translations, New York

Office of Technical Services

Ivanova, L. I.
SUR LA FORMATION DES ALUMINO-SILICATES
DANS LES MASSES DE FUSION DU SYSTEME
 $\text{Na}_3\text{AlF}_6 - \text{Al}_2\text{O}_3 - \text{SiO}_2$ (Formation of Aluminosilicates
in the Melts of the $\text{Na}_3\text{AlF}_6 - \text{Al}_2\text{O}_3 - \text{SiO}_2$ System). 11p.

16 refs. FR-1747.

Order from OTS, ETC or CNRS \$0.80 62-26521

Trans. in French of Izvestiya Vsesoyuznogo Nauchnogo
Zavedeniya Khimiya i Khimicheskaya Tekhnologiya 1960,
v. 3 [no. 5] p. 970-974.

DESCRIPTORS: *Aluminum compounds, *Silicates,
Cryolite, Oxides, Melting, Sodium compounds.

(Chemistry, TT, v. 10, no. 7)

62-26521

- I. Ivanova, L. I.
- II. FR-1747
- III. Centre National de la
Recherche Scientifique
(France)

Office of Technical Services

The Synthesis of Some C_{15} -- C_{19} Cyclohexane
Homologs Which Have Increased Volumetric
Heat of Combustion, by Ye. B. Sokolova,
M. P. Shebanova, 7 pp.

RUSSIAN, per, Iz Vysshikh Uchebnykh Zaved
Khim i Khimicheskaya Tekh, Vol III, No 6,
1960, pp 1040-1044. 9664207

FTD-TT-61-279

Sci - Chem

2 Mar 62

186,193

A Reaction of Orthocarboxyphenylsulphuric Acid,
by V. N. Klyuev, V. F. Borodkin.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khin Tekh, Vol III, No 6, 1960, pp 1079-1081.

HLL RTS 2022

Sci - Chem

Aug 52

201,571

(SF-1879)

Conference on Kinetic Methods of Analysis, by V. P.
Vasil'yev, V. D. Korableva, K. B. Yatsimirskiy, 7 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved SSSR, Khim i
Khim Tekh, Vol III, No 6, 1960, pp 1113-1116.

JPRS 4996

Sci - Chem

170,441

Oct 61

INVESTIGATION OF THE PROPERTIES OF MELTS OF THE
 $PbO-SiO_2$ SYSTEMS BY THE ELECTROMOTIVE FORCE METHOD
AT 1200°C, BY V. I. MINENKO, ET AL.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED, KHIM I KHIM
TEKH, VOL IV, NO 1, 1961, PP 3-6.

NLL M. 6170

SCI - CHEM

OCT 62

213,005

POLYMORPHIC TRANSFORMATIONS IN ALLOYS OF
IRON WITH COBALT AND PALLADIUM, BY V. V. KOOPRINA,
A. T. GRIGORYEV. *in Khim*

RUSSIAN, PER, IZ VUZ, KHIM/TEKH, NO L, L96L,
PP 7-10.

TIL T 5264

SCI - MIN/MET

210,224

SEP 62

Kreshkov, A. P., Bykova, L. N., and Kazaryan, N. A.
THE DIFFERENTIAL TITRATION OF MIXTURES OF
STRONG, WEAK, AND VERY WEAK ACIDS IN METHYL
ETHYL KETONE MEDIA. [1962] 6p.
Order from ATS \$8.65 ATS-12P64R

Trans. of Izv[estiya] Vysshikh Uchebn[ykh] Zavedenii.
Khim[iya] i Khim[icheskaya] Tekhnol[ogiya] (USSR)
1961, v. 4, no. 1, p. 20-24.

DESCRIPTORS: Methyl radicals, Ethyl radicals, *Ke-
tones, *Acids, Titration.

(Chemistry--Analytical, TT, v. 9, no. 2)

63-12017

I. Kreshkov, A. P.
II. Bykova, L. N.
III. Kazaryan, N. A.
IV. ATS-12P64R
V. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS RJ-4057

Office of Technical Services

An Investigation of the Effect of Complex Formation
of Alcohols With Electrolytes on the Curves of
Physical Titration Up to the Turbidity Point, by
E. K. Nikitin, S. I. Spiridonova.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khimich Tekh, Vol IV, No 1, 1961, pp 33-37.

BISI 2571

Sci - Chem

204, 824

Jul 62

list 1300

Krasnov, K. S.
THE BOND ENERGY IN HALIDE MOLECULES OF
GROUP II AND AN IONIC MODEL. [1962] [8]p.
21 refs.
Order from OTS or SLA \$1.10 63-13578

Trans. of Izv[estiya] Vysshikh Uchebn[ykh] Zavedenii.
[Khimiya i Khimicheskaya Tekhnologiya] (USSR) 1961
[v. 4] no. 1, p. 38-44.

DESCRIPTORS: *Halides, *Group II elements, Energy,
*Chemical bonds, Molecules, Ionization, Electrical
conductance.

A calculation was made of the bond energy of molecules
of halides of Group II of the periodic system on the basis
of an ionic model with coefficients of repulsion calcu-
lated from the effective charges of the ions. For salts
of BeHal_2 , CaHal_2 and BaHal_2 the deviations of the
(Chemistry--Physical, TT, v. 9, no. 12) (over)

63-13578

I. Krasnov, K. S.
II. Translations, New York

Office of Technical Services

62-34321

Kuznetsov, M. D. and Oratovskii, V. I.
RATE OF CHEMISORPTION IN A VENTURI-TYPE
APPARATUS. Apr 62, 4p. 2 refs.
Order from ICN in v. 2, no. 2, \$15.00/year:

Trans. of Izvest[ia] Vysshikh Ucheb[nykh] Zavedenii.
Khim[ia]: Khim[icheskaya] Tekh[nologiya] (USSR)
1961, v. 4, no. 1, p. -42-[147].
Another trans. is available from ATS \$9.70 as
ATS-83NS7R [1961] 7p.

DESCRIPTORS: *Chemical engineering, *Ventritubes,
Towers (Chemistry), *Chemisorption, Velocity,
Equations, *Absorption, *Adsorption.

(Engineering--Chemical, TT, v. 8, no. 11)

- I. Kuznetsov, M. D.
- II. Oratovskii, V. I.
- III. International Chemical
Engineering, New York

Office of Technical Services

HEAT TRANSFER FROM A GRANULAR LAYER TO A TUBE
WALL IN THE PRESENCE OF INTERNAL HEAT SOURCES,
BY V. A. RASTATURIN, 6 PP.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED SSSR,
KHIM I KHIMICHESKAYA TEKH, NO 1, 1961, PP 138-
141. 9677358

FTD-TT-62-111

SCI-PHYS
10 JUL 62

202,256

Kuznetsov, M. D. and Oratovskii, V. I.
THE RATE OF CHEMISORPTION IN A VENTURI-
TYPE APPARATUS. [1961] 7p.
Order from ATS \$9.70

ATS-83N57R

Trans. of Izvest[iya] Vysshikh Ucheb[nykh]
Zavedenii. Khim[iya] i Khim[icheskaya] Tekhnol[ogiya]
(USSR) 1961, v. 4, no. 1, p. 142-147.

DESCRIPTORS: *Absorption, *Adsorption, Velocity,
Measurement, *Venturi tubes.

(Chemistry--Physical, TT, v. 7, no. 6)

62-12356

- I. Title: Chemisorption
- I. Kuznetsov, M. D.
- II. Oratovskii, V. I.
- III. ATS-83N57R
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

ATS RT-3936

Office of Technical Services

Gorbachev, S. V. and Sytilin, M. S.
ÉTUDE DE LA CINÉTIQUE DE LA RÉACTION
D'OXYDATION DE L'HYDROQUINONE PAR L'INTER-
MÉDIAIRE DU "REDOXYSTAT" (Issledovanie kinetiki
reaktsii oksidatsiya gidrokhinona s pomoishch'yu
redoksisatov) (Kinetics of the oxidation of hydroquinone
with the help of a redoxistat). 8p. (foreign text
included). 3 refs FR-2575.

Order from OTS, ETC or CNRS \$0.80 62-26423

Trans. in French of Izvestiya Vysishikh Uchebnykh
Zavedenii. Khimiya i Khimicheskaya Tekhnologiya
(USSR) 1961, v. 4, no. 1, p. 153-157.

DESCRIPTORS: *Oxidation, Reaction kinetics.

(Chemistry--Physical, TT, v. 10, no. 10)

62-26423

- I. Title: Hydroquinol
- I. Gorbachev, S. V.
- II. Sytilin, M. S.
- III. F/R-2575
- IV. Centre National de la
Recherche Scientifique

Office of Technical Services

(SF-1879)

On the Strength of Liquid Under Hydrostatic
Tension, by L. A. Gromov, M. K. Baransyev,
3 pp.

RUSSIAN, per, Iz Vysokikh Ucheb Zaved,
Khim i Khim Tekh, Vol IV, No 2, 1961,
pp 320-321.

JPRS 13149

Sci - Chem
Mar 62

189,331

(SF-1879/4)

11-Union Inter-VUZ Conference on the Theory and
Practice of Rectification in the Chemical and the
Food Industries, by P. Tsygankov, 11 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved SSSR, Khim
Khim Tekh, Vol. IV, No 2, 1961, pp 328-332.

JPRS 4986

172,848

SSR

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et 61

S-40/63

On the Problem of Corrosion Resistance Fe-Cr and
Fe-Mn Solid Solutions, by I. Kh. Varivoda. *4/25*
(SF-2468)

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khim Tekh, Vol V, No 2, 1962, pp 264-266.

*JPRS

Sci - Chem

15 Jan 63

Selivanova, N. M., and Pakhorukov, N. I.
ON THE HEATS OF SOLUTION OF SELENIOUS
ACID. [1962] [6]p. 8 refs.
Order from OTS or SLA \$1.10 63-13422

Trans. of Izv[estiya] Vysshikh Uchebn[ykh] Zavedenii.
[Khimiya i Khimicheskaya Tekhnologiya] (USSR) 1961
[v. 4] no. 3, p. 355-358.

DESCRIPTORS: *Heat of solution, Specific heat,
*Selenious acid, Selenium compounds, Dioxides,
Thermochemistry.

The purpose of the investigation was the determination
of the integral heats of solution in water of selenious
acid in solutions of various concentrations, and verifi-
cation of the values of the heat of solution in water of
selenium dioxide at a dilution of 1:200. (Author)

(Chemistry--Physical, TT, v. 10, no. 4)

63-13422

I. Selivanova, N. M.
II. Pakhorukov, N. I.
III. Translations, New York

Office of Technical Services

Gordievskii, A. V. and Ustyugov, G. P.
PHOTOMETRIC DETERMINATION OF BORON IN
MAGNESIUM ALLOYS. [1963] 5p.
Order from ATS \$6.50 ATS-85Q69R

Trans. of Izv[estiya] Vysshikh Uchebn[ykh] Zavedenii
Khim[iya] i Khim[icheskaya] Tekhnol[ogiya] (USSR) 1961,
v. 4, no. 3, p. 366-369.

DESCRIPTORS: *Boron, *Magnesium alloys,
*Photometers.

(Chemistry--Analytical, TT, v. 10, no. 3)

63-17481

I. Gordievskii, A. V.
II. Ustyugov, G. P.
III. ATS-85Q69R
IV. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS RT-4138

Office of Technical Services

Alkylation of Aromatic Amines With Mannich
Bases, by G. I. Denis.

RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedenii. Khimiya i Khimicheskaya Tekhnologiya.
Vol 4, No 3, 1961, pp 426-428.
NTC-71-10695-07C

Nov 71

Heat Transfer at Ribbed Tubular Surfaces Subject
to Lengthwise Flow, by N. N. Norkin, et al.

RUSSIAN, ~~per~~, Iz Vysshikh Ucheb Zaved Khim i Khim
Tekhn, No 3, 1961, pp 518-519.

U.K. Atomic Energy Authority
Risley, TRG Inf Ser 163(W)

Sci - Chem
Jul 62

202,118

Fedorov, P. I., and Shakhova, M. N.
THE SATURATION VAPOR PRESSURE OF CUPROUS
BROMIDE AND CHLORIDE. [1962] [5]p. 14 refs.
Order from OTS or SLA \$1.10 63-13715

Trans. of Izvestiya Vysshikh Uchebnykh Zavedeni.
Khimiya (Khimicheskaya Tekhnologiya (USSR) 1961
[v. 4] no. 4, p. 550-553.

DESCRIPTORS: *Bromides, *Chlorides, *Copper com-
pounds, *Vapor pressure, Molecular association.

The boiling-point method and the saturation method were
used to determine the saturation vapor pressure of
copper bromide in the 400° to 800°C range. Comparison
of the experimental data obtained by these two methods
indicates that cuprous bromide is present in the vapor
as the trimer Cu_3Br_3 , at temperatures above 450°C.
Below this temperature further association of the
(Chemistry--Physical, TT, v. 10, no. 3) (wc:)

63-13715

I. Fedorov, P. I.
II. Shakhova, M. N.
III. Translations, New York

Office of Technical Services

Kunin, T. I. and Vlasjuk, M. A.
THE USE OF VIBRATING MILL FOR THE PRO-
DUCTION OF RONCALITE (Primenenie Vibromel'nitsy
dlya Proizvodstva Rongalita). [1962] [8]p. (foreign text
included) 13 refs.

Order from OTS or SLA \$1.10

62-20237

Trans. of Izv[estiya] Vysshikh Uchebn[ykh] Zavedenii.
Khim[iya] i Khim[icheskaya] Tekhnol[ogiya] (USSR)
1961 [v. 4] no. 4, p. 636-638.

DESCRIPTORS: *Sulfites, Decomposition, Chemical
reactions, Reaction kinetics, Vibrators (Mechanical),
Production.

It has been established that metallic iron has no effect
on the reduction rate of sodium bisulfite by zinc powder
in the case of operating conditions of equipment such
as kettles with agitators. Production of rongalite in
(Engineering--Chemical, TT, v. 10, no. 7) (over)

62-20237

1. Title: Rongalite
I. Kunin, T. I.
II. Vlasjuk, M. A.

Office of Technical Services

63-10751

Kunin, T. I. and Epifanov, V. S.
ON THE PROBLEM OF THE REACTION OF SODA
WITH SULFUR DIOXIDE IN A FLUIDIZED BED (K
Voprosu o Vzaimodelstvii Sodnykh i Sernykh Angidri-
dov v Kipyashchem Sloe). [1962] [15]p. (foreign text
included) 11 refs.

Order from OTS or SLA \$1.60 63-10751

Trans. of Izv[estiya] Vysshikh Uchebn[ykh]
Zavedenii. Khim[iya] i Khim[icheskaya] Tekhnol[ogiya]
(USSR) 1961, v. 4 [no. 6] p. 992-997.

DESCRIPTORS: *Fluidized solids, *Sodium compounds,
Oxides, *Sulfur compounds, Dioxides, Chemical re-
actions, Adsorption, Water vapor, Temperature.

The influence of various factors on the rate of the
reaction between soda and sulfur dioxide under
fluidized bed conditions was investigated. The concen-
(Engineering-Chemical, TT, v. 10, no. 1) (over)

I. Kunin, T. I.
II. Epifanov, V. S.

Office of Technical Services

Method of Calculating the pH Values of Aqueous
Solutions of Strong Acids and Bases at High
Temperatures, by O. Martynova, E. Mingulina.
RUSSIAN, pos, Iz. Vys. Ucheb. Kavod. USSR. Khim i
Khim. Tekh, Vol. 4, 1961, pp 1041-1042.
OSIRO/Hg. 66/1

Sci -
July 1967

334-450

The Use of Tritium for the Determination of the
Relative Contents of the Abstraction Rates of the
Hydrogen Atoms in Organic Compounds. The Compara-
tive Reactivity of Carbon-Hydrogen Bonds of
Hydrocarbons in Radical Reactions, by V. L. Antonovsky,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Khim i Khim
Tekh, No 1, 1962, pp 94-100.

TIL/T5370

Sci - Chem

230,715

May 63

Bulygin, B. M., Pobedinskii, S. N., and Kuz'min,
L. L.

**ANODIC SOLUTION OF MAGNESIUM IN OXIDIZING
ELECTROLYTES. [1963] [8p] 7 refs.**

C. E. Trans. 2945.

Order from OTS, SLA, or ETC \$1.10 TT-63-24091

Trans. of Izvestiya Vsesoyuznogo Nauchno-Issledovatskogo
Khimicheskogo Tekhnologicheskogo (USSR)
1962, v. 5 [no. 1] p. 120-125. (Abstract available)

DESCRIPTORS: Electrolytes, Oxidation, *Magnesium
compounds, Solutions, Anodes, *Electrochemistry.

Galvanic sources of electricity can function with a
magnesium anode when the electrolyte is a solution of
a pure oxidizing agent. In these circumstances, as a
result of passivation of the surface by a protective,
oxide film, the consumption of the metal and evolution
(Chemistry--Physical, TT, v. 11, no. 3) (over)

TT-63-24091

I. Bulygin, B. M.

II. Pobedinskii, S. N.

III. Kuz'min, L. L.

IV. CE Trans-2945

V. Central Electricity
Generating Board
(Gt. Brit.)

Office of Technical Services

S-40/63

On the Problem of Corrosion Resistance Fe-Cr and
Fe-Mn Solid Solutions, by I. Kh. Varivoda. 4 pp.
(SF-2468)

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khim Tekh, Vol V, No 2, 1962, pp 264-266.

²JPRS/Special

Sci -Chem
15 Jan 63

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Certain Regularities in the Plasticization of
Polyvinyl Chloride with Tetrahydrophthalate
Oxides, by V. A. Voskresenskii, S. S. Shakirzyanova,
V. A. Byl'ev, 5pp
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedenii
Khimiya i Khimicheskaya Tekhnologiya, Vol 5,
1962, No 2, pp 322-325
SLA TT-64-16283

Sci - Mat
June 67

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THE INFLUENCE OF HEAT TREATMENT BY A CURRENT
OF HIGH FREQUENCY ON THE CORROSION OF WELDED
JOINTS OF KIKHLON9T STEEL, BY V. A. SUPRUNOV,
V. N. KISEL'NIKOV, 8 PP.

RUSSIAN, PER, IZVESTIYA VYSSHIKH UCHEBNYKH
ZAVEDENIY SSSR, KHIMIYA I KHIMICHESKAYA
TEKHNOLOGIYA, VOL V, NO 2, 1962, PP 336-339.

JPRS 17356

SCI - CHEM

JAN 63

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Effect of the Enthalpy Criterion on Heat-Exchange
in Condensation of Steam From a Steam-Gas Mixture,
by I. A. Komarov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i Khim
Tekh, Vol V, No 3, 1962, pp 496-~~496~~501.

NLL RTS 2600 on purchase or loan

NLL Ref: 909194 (with trans 1963)

*UKAEA
Risley

TT-64-23501

Tr No ~~35~~

332

Sci - Phys

5 Mar 63

Arzumanov, A. O.

THE LACK OF FOUNDATION FOR THE THEORY OF
COVALENT CHEMICAL BONDING [AND] LETTERS
TO THE EDITOR (Nesostoyatel'nost' Kovalentnoi
Teorii Khimicheskoi Svyazi). 1963, 9p. 11 refs.
PL-480 Comm.

Order from OTS \$0.50

63-11186

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1962,
v. 5, no. 4, p. 675-680.

9212592

9212592

DESCRIPTORS: Molecular structure, *Chemical bonds,
Theory, Atomic orbitals, Valence, Magnetic fields,
*Germanium compounds, Hydroxides, Solubility.

The data discussed demonstrate that the theory of covalent bonding is totally unfounded. A simple chemical bond should be regarded as being of the same homo-
(Chemistry, TT, v. 10, no. 3)

(over)

63-11186

- I. Arzumanov, A. O.
- II. PL-480 Comm (63-11186)
- III. National Science Foundation, Washington, D. C.

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Mass-Spectrometric Study of the
Vaporization of NbO, by
S. A. Shchukarev, et al.
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Tekhn, No 5, 1962, pp 691-693.
NASA TT F-9776

Sci-Chem
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V. A. Zagoruchenko

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and 300 ATM.

RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedenii. Khimiya i Khimicheskaya Tekhnologiya,
Vol 5, No 5, 1962, pp 734-738
NTC 72-13381-07D

NTIS TT 69-55049

Oct 72

Shchukarev, C. A. and Semenov, G. A.
ABOUT THE EVAPORATION OF HAFNIUM DIOXIDE
(Ob isparevii Druokisi Gafniya) F. W. Wood, tr.
21 Jan 64 [2p] (foreign text included) 3 refs
Order from OTS, SLA, or ETC \$1.10 TT-64-15151

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(Chemistry--Physical, TT, v. 11, no. 12)

TT-64-15151

I. Shchukarev, C. A.
II. Semenov, G. A.
III. Department of the Interior,
Washington, D. C.

Office of Technical Services

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RUSSIAN, per, Izvestiya vysshikh Uchebnykh
Zavedeni Khimiya i Khimicheskaya Tekhnologiya,
vol. 5, no. 1, 1962, pp. 101-106.
NTC 70-16930-07C

Anodic Behavior of Magnesium in
Salt Solutions in the Presence of
Alkali, by S. N. Pobedinskii, 8 pp.
RUSSIAN, per, Iz VUZ Khim i Khim Tekhnol.
No 6, 1962, pp 954-959. PS00252567
Dept of Navy Tr 5039/ONI Tr 2248

Sci-Chem
Jan 67

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Usmanov, A. G. and Mukhamedzyanov, G. Kh.
APPLICATION OF THE METHOD OF SIMILARITY
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THERMAL CONDUCTIVITY OF LIQUIDS. July 63,
6p. 16 refs.
Order from ICE in v. 3, no. 3, \$15.00/year

Trans. of Izvestiya Vysshikh Uchebnykh Zavodov,--
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1962
[v. 5] no. 6, p. 986-994.

DESCRIPTORS: Chemical engineering. *Viscosity,
Heat transfer, Liquid metals, *Thermal conductivity,
Organic compounds.

(Physics--Thermodynamics, TT, v. 10, no. 7)

63-17886

I. Usmanov, A. G.
II. Mukhamedzyanov, G. Kh.
III. International Chemical
Engineering, New York

Office of Technical Services

Study of the Extent to Which Apparent Equilibrium
Constants in Ion-Exchange Processes Depend Upon
Temperature Changes, by V.S.Soldatov and
G.I.Starobinets.

RUSSIAN, per, IZ, V.U.Z., Zaved, Khimiya i
Khim Tekh, 1963, vol.6, no.1, pp.68-71.
OTS-TT-647-919855

Aug 66
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Investigation of Systems in the Liquid Crystal State.
Also Cholesteryl Caprylate & Cholesteryl Caprate,
by I. G. Chistyakov.
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Tekh, Vol VI, No 2, 1963.
ERDL, Ft Belvoir T-1707
(AD 428416)

Sci - Chem
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Measurement of the Dependence of the Basicity Constant
of m-Nitroaniline on Temperature, by Yu. L. Khaldna,
5 pp.
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Sci-Chem
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Chistyakov, I. G., Usol'tseva, V. A.,
Nasyrova, M. D., and Ershova, L. I.
INVESTIGATION OF SYSTEMS WITH A LIQUID
CRYSTAL STATE. III. CHOLESTEROLCAPRYLATE
AND CHOLESTEROLCAPRATE. [Nov 63] Sp 7refs
Order from OTS, SLA, or ETC \$1.10 TT-64-14182

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(Physics--Solid State, TT, v. 11, no. 12)

TT-64-14182

- I. Chistyakov, I. G.
- II. Usol'tseva, V. A.
- III. Nasyrova, M. D.
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- V. Title: Cholesterolcaprylate...

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Grek, F. Z. and Kiselev, V. N.
DETERMINING THE VOID FRACTION OF FLUIDIZED
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Mechanism of Sulphonation. 57. Kinetics of
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pp 425-433
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Sci -
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The Production of Electrically Conducting Plastics
Copper Coating of Polystyrene Powder, by V. I.
Shorokhova and L. L. Kuz'min,
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Sept 66

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KINETICS OF THE CATALYTIC OXIDATION OF
METHANOL TO FORMALDEHYDE OVER A SILVER
CATALYST. [Apr 64] 8p
Order from ATS \$9.85 ATS-67R75R

Trans. of Izv[estiya] Vysshikh Uchebnykh Zavedenii.
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1963, v. 6, no. 5, p. 774-780.

NTC 69-11317-07A

(Chemistry--Physical, TT, v. 12, no. 2)

TT-64-22096

I. Atroshchenko, V. I.
II. Kushnarenko, I. P.
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Orange, N. J.

Office of Technical Services

Obtaining Electro-Conductive Plastic and the
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and L. L. Kuzmin,
RUSSIAN, per, Izvestiya VUZ SSSR, Khimiya i
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Sci-Chem
Mar 67

321,449

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Inv. Vysishikh Uchebn. Zavedeni Khim. I. Khim. Tekhnol. 7 Pages 106 - 110 (1964). / Kalliga; Lyutskovsk;			
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Properties of High Purity 2002 FTD-TT-64-1068			
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Piezoelectric Method of Studying the Structure of a
Suspended Layer, by A. Gorshtein, V. Soroko.
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Sci -
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An Investigation of the Mixing of
Granular Materials in Continuously
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by A. G. Fomichev, V. D. Gvozdev,
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Preparation of Platinum-Free Silver Halide
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V. B. Aleksovskiy.
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icheskaya Tekhnologiya, Vol 7, No 1, 1964,
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NASA TT F-11,085

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Cathode Polarization on the Deposition of
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June 72

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F. I. Trishin, M. A. Zhdanova.

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Dept of Navy API/JHU TG-230 T548

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Hydrogen, Carbon Monoxide, and Methane, by
A. A. Shutov, I. P. Kirillov, 6 pp.
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Gas Chromatographic Analysis of Mixtures of
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USSR
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Field 7C

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Order from SLA: \$1.10 as TT-65-13894

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Sci/Earth Sci

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Sci A -

Sci - Agri

Jun 66

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Sci

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